

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT							
<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER LC Fee 5-25D-47							
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT UNDESIGNATED							
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME							
6. NAME OF OPERATOR BILL BARRETT CORP						7. OPERATOR PHONE 303 312-8164							
8. ADDRESS OF OPERATOR 1099 18th Street Ste 2300, Denver, CO, 80202						9. OPERATOR E-MAIL BHilgers@billbarrettcorp.com							
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>							
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')							
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')							
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Uintah and Ouray			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>							
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN	
LOCATION AT SURFACE		1766 FNL 518 FWL		SWNW		25		4.0 S		7.0 W		U	
Top of Uppermost Producing Zone		1980 FNL 811 FWL		SWNW		25		4.0 S		7.0 W		U	
At Total Depth		1980 FNL 810 FWL		SWNW		25		4.0 S		7.0 W		U	
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 810			23. NUMBER OF ACRES IN DRILLING UNIT 640							
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2525			26. PROPOSED DEPTH MD: 7184 TVD: 7161							
27. ELEVATION - GROUND LEVEL 7384			28. BOND NUMBER LPM4138148			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-180							
<b>Hole, Casing, and Cement Information</b>													
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement		Sacks	Yield	Weight		
COND	26	16	0 - 80	65.0	Unknown	8.8	Unknown		0	0.0	0.0		
SURF	12.25	9.625	0 - 1500	36.0	J-55 ST&C	8.8	Halliburton Light , Type Unknown		190	3.16	11.0		
							Halliburton Premium , Type Unknown		210	1.36	14.8		
PROD	8.75	5.5	0 - 7184	17.0	P-110 LT&C	9.6	Unknown		610	2.31	11.0		
							Unknown		670	1.42	13.5		
<b>ATTACHMENTS</b>													
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>													
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN							
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER							
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP							
NAME Venessa Langmacher				TITLE Senior Permit Analyst				PHONE 303 312-8172					
SIGNATURE				DATE 03/28/2012				EMAIL vlangmacher@billbarrettcorp.com					
API NUMBER ASSIGNED 43013513290000				APPROVAL  Permit Manager									

**BILL BARRETT CORPORATION**  
**DRILLING PLAN**

1/04/2011

**LC Fee 5-25D-47**

SW NW, 1766' FNL and 518' FWL, Section 25, T4S-R7W, USB&M (surface hole)

SW NW, 1980' FNL and 810' FWL, Section 25, T4S-R7W, USB&M (bottom hole)

Duchesne County, Utah

**1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<b><u>Formation</u></b>	<b><u>Depth – MD</u></b>	<b><u>Depth - TVD</u></b>
Lower Green River*	3,596'	3,581'
Douglas Creek	4,408'	4,386'
Black Shale	5,218'	5,196'
Castle Peak	5,418'	5,396'
Uteland Butte	5,728'	5,706'
Wasatch*	5,958'	5,936'
TD	7,184'	7,161'

\*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 5,996'

**3. BOP and Pressure Containment Data**

<b><u>Depth Intervals</u></b>	<b><u>BOP Equipment</u></b>
0 – 1,500'	Rotating Head will be installed
1,500' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<b><u>Hole Size</u></b>	<b><u>SETTING DEPTH</u></b>		<b><u>Casing Size</u></b>	<b><u>Casing Weight</u></b>	<b><u>Casing Grade</u></b>	<b><u>Thread</u></b>	<b><u>Condition</u></b>
	<b><u>(FROM)</u></b>	<b><u>(TO)</u></b>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	1,500'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

Bill Barrett Corporation  
 Drilling Program  
 LC Fee 5-25D-47  
 Duchesne County, Utah

## 5. Cementing Program

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 190 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx), calculated hole volume with 75% excess. TOC @ 1,000'
5 1/2" Production Casing	Lead: 610 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 1,000' Tail: 670 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 4,718'

## 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u> <u>(API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 1,500'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
1,500' – TD	8.6 – 9.6	42-52	20 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

## 7. Testing, Logging and Core Programs

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

## 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 3574 psi\* and maximum anticipated surface pressure equals approximately 1999 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

Bill Barrett Corporation  
Drilling Program  
LC Fee 5-25D-47  
Duchesne County, Utah

**9. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
  - b) Inside BOP or stab-in valve (available on rig floor)
  - c) Safety valve(s) and subs to fit all string connections in use
- Mud monitoring will be visually observed

**10. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W water right number 43-180.

**11. Drilling Schedule**

Location Construction: July 2012  
Spud: July 2012  
Duration: 15 days drilling time  
45 days completion time

T4S, R7W, U.S.B.&M.

S89°52'20"E - 5228.58' (Meas.)

Set Marked Stone

R.R. 76 W

N00°25'26"W - 2595.89' (Meas.)

518'  
810'

LC FEE #5-25D-47  
Elev. Ungraded Ground = 7384'

1766'  
1980'

Set Marked Stone

25

S00°09'10"W - 5214.39' (Meas.)

N89°43'08"W - 2576.91' (Meas.)

White Crumbled  
Stone in Center  
of Pile of Stones

S89°58'40"W - 2630.68' (Meas.)

Set Marked Stone

LEGEND:

- 90° SYMBOL
- PROPOSED WELL HEAD.
- SECTION CORNERS LOCATED.

LINE TABLE		
LINE	BEARING	LENGTH
L1	S53°43'58"E	363.71'

NAD 83 (TARGET BOTTOM HOLE)		NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°06'20.84" (40.105789)	LATITUDE = 40°06'22.96" (40.106378)	LATITUDE = 40°06'20.99" (40.105831)	LATITUDE = 40°06'23.11" (40.106419)
LONGITUDE = 110°37'49.91" (110.630531)	LONGITUDE = 110°37'53.69" (110.631581)	LONGITUDE = 110°37'47.35" (110.629819)	LONGITUDE = 110°37'51.13" (110.630869)
NAD 27 (TARGET BOTTOM HOLE)		NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°06'20.99" (40.105831)	LATITUDE = 40°06'23.11" (40.106419)	LATITUDE = 40°06'20.99" (40.105831)	LATITUDE = 40°06'23.11" (40.106419)
LONGITUDE = 110°37'47.35" (110.629819)	LONGITUDE = 110°37'51.13" (110.630869)	LONGITUDE = 110°37'47.35" (110.629819)	LONGITUDE = 110°37'51.13" (110.630869)

BILL BARRETT CORPORATION

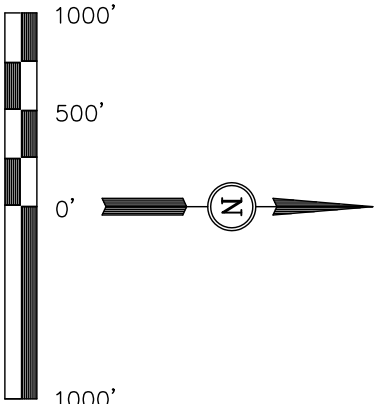
Well location, LC FEE #5-25D-47, located as shown in the SW 1/4 NW 1/4 of Section 25, T4S, R7W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESENE SE QUADRANGLE, UTAH, DUCHESENE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED ON CAP AS BEING 6097 FEET.

BASIS OF BEARINGS

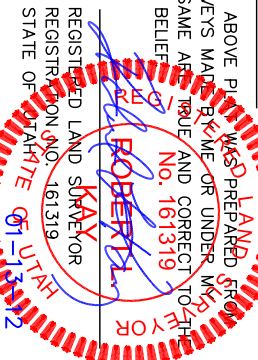
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REVISED: 01-13-12 Z.L.  
REVISED: 07-09-08

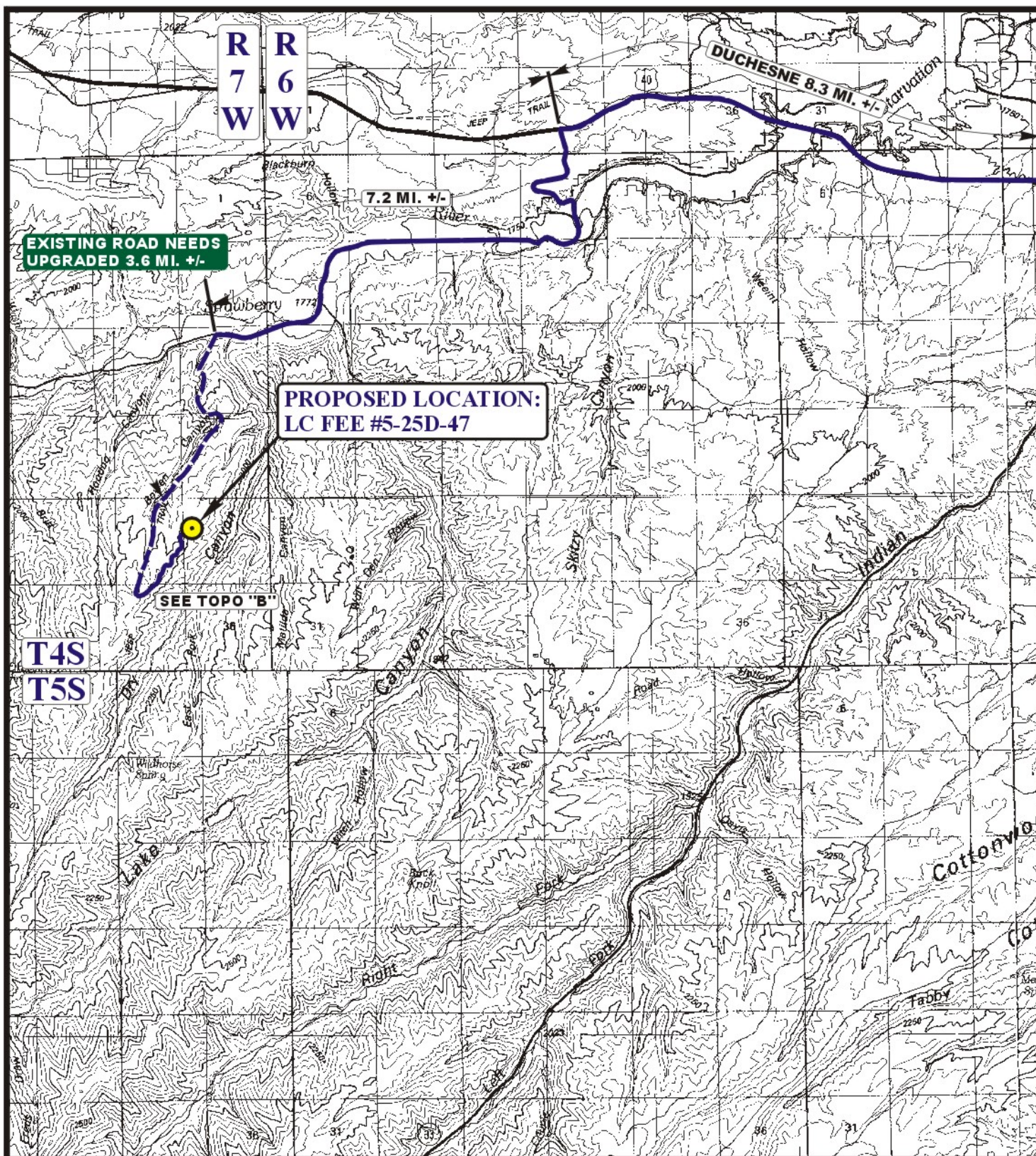


UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE		DATE SURVEYED:	DATE DRAWN:
1" = 1000'		05-05-08	06-17-08
PARTY	REFERENCES	G.L.O. PLAT	
S.H. T.P. C.H.			
WEATHER	FILE	BILL BARRETT CORPORATION	
WARM			





**LEGEND:**

 PROPOSED LOCATION

**BILL BARRETT CORPORATION**

LC FEE #5-25D-47  
SECTION 25, T4S, R7W, U.S.B.&M.  
1766' FNL 518' FWL



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC  
MAP**

**06 17 08**  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: J.J. REV: 01-17-12 Z.L.







## BILL BARRETT CORPORATION

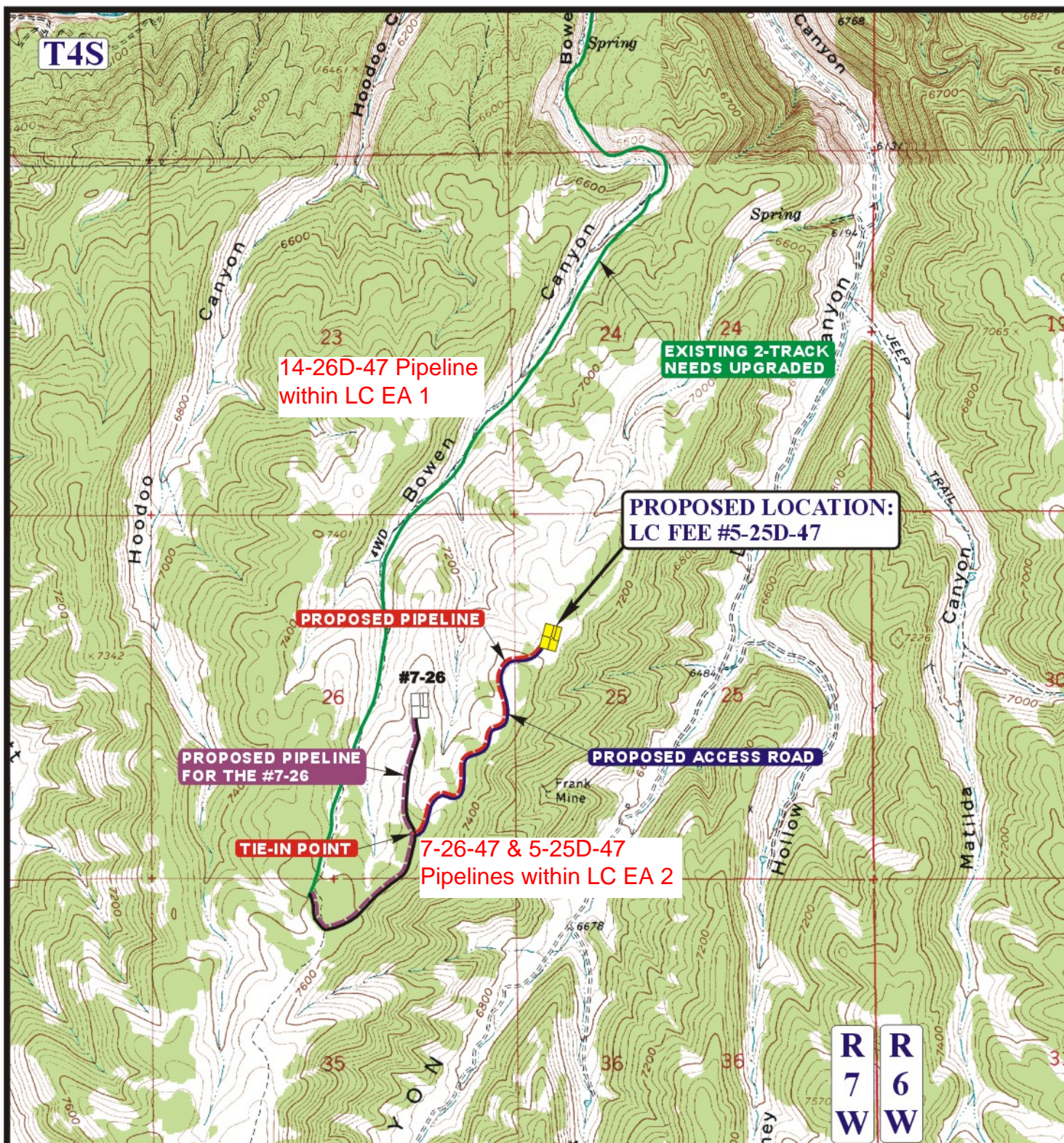
LC FEE #5-25D-47  
SECTION 25, T4S, R7W, U.S.B.&M.  
1766' FNL 518' FWL

TOPOGRAPHIC MAP			06 MONTH	17 DAY	08 YEAR
SCALE: 1" = 2000'		DRAWN BY: J.J.	REV: 01-17-12 Z.L.		

**B**  
**TOPO**

**Utah Engineering & Land Surveying**  
**85 South 200 East Vernal, Utah 84078**  
**(435) 789-1017 \* FAX (435) 789-1813**





**APPROXIMATE TOTAL PIPELINE DISTANCE = 3,958' +/-**

**LEGEND:**

	EXISTING ROAD
	PROPOSED ACCESS ROAD
	EXISTING 2-TRACK NEEDS UPGRADED
	PROPOSED PIPELINE
	PROPOSED PIPELINE (SERVICING OTHER WELLS)

**BILL BARRETT CORPORATION**

**LC FEE #5-25D-47**  
**SECTION 25, T4S, R7W, U.S.B.&M.**  
**1766' FNL 518' FWL**



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 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC**  
**MAP**

**06 17 08**  
 MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: J.J.

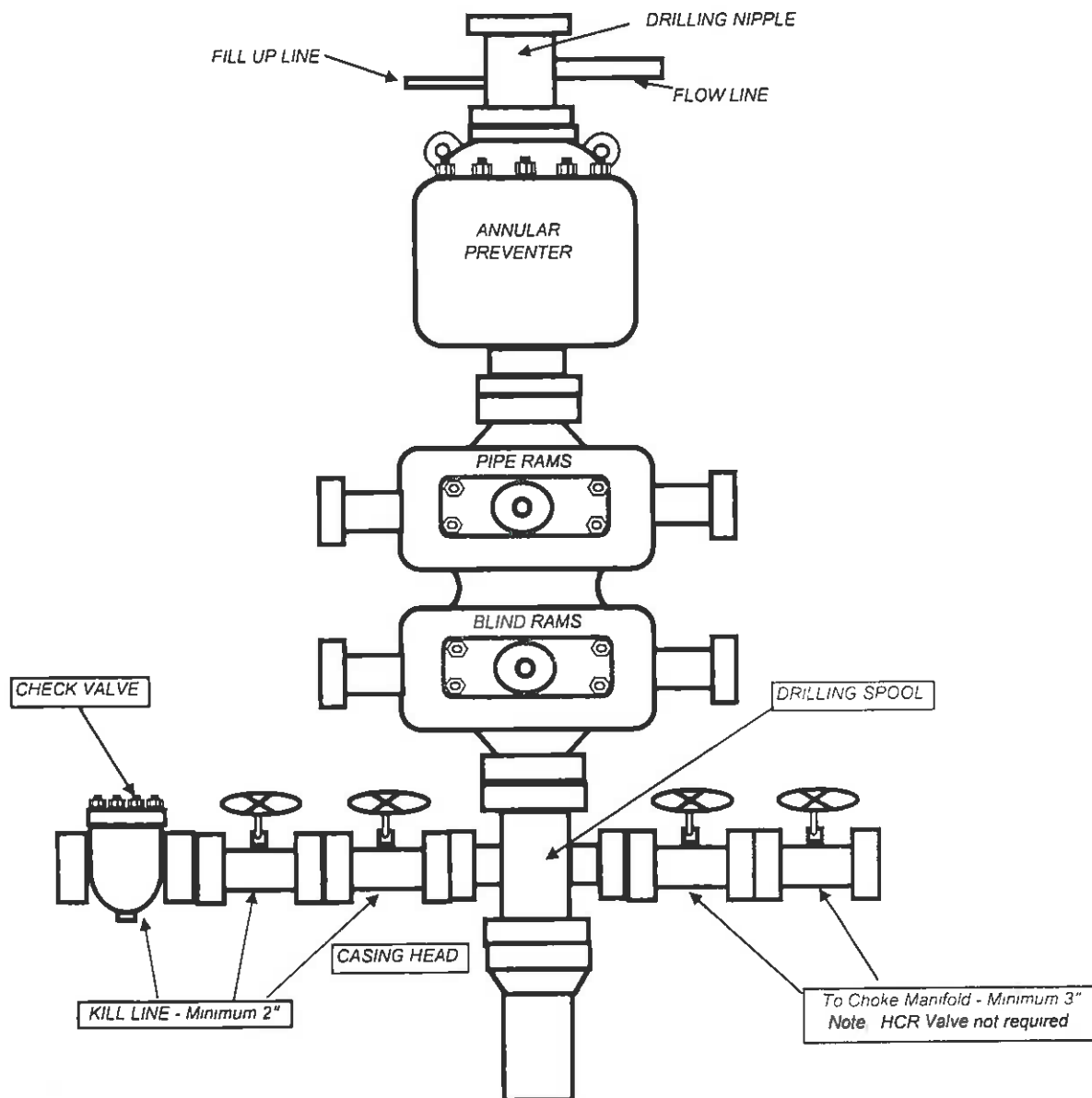
REV: 01-17-12 Z.L.





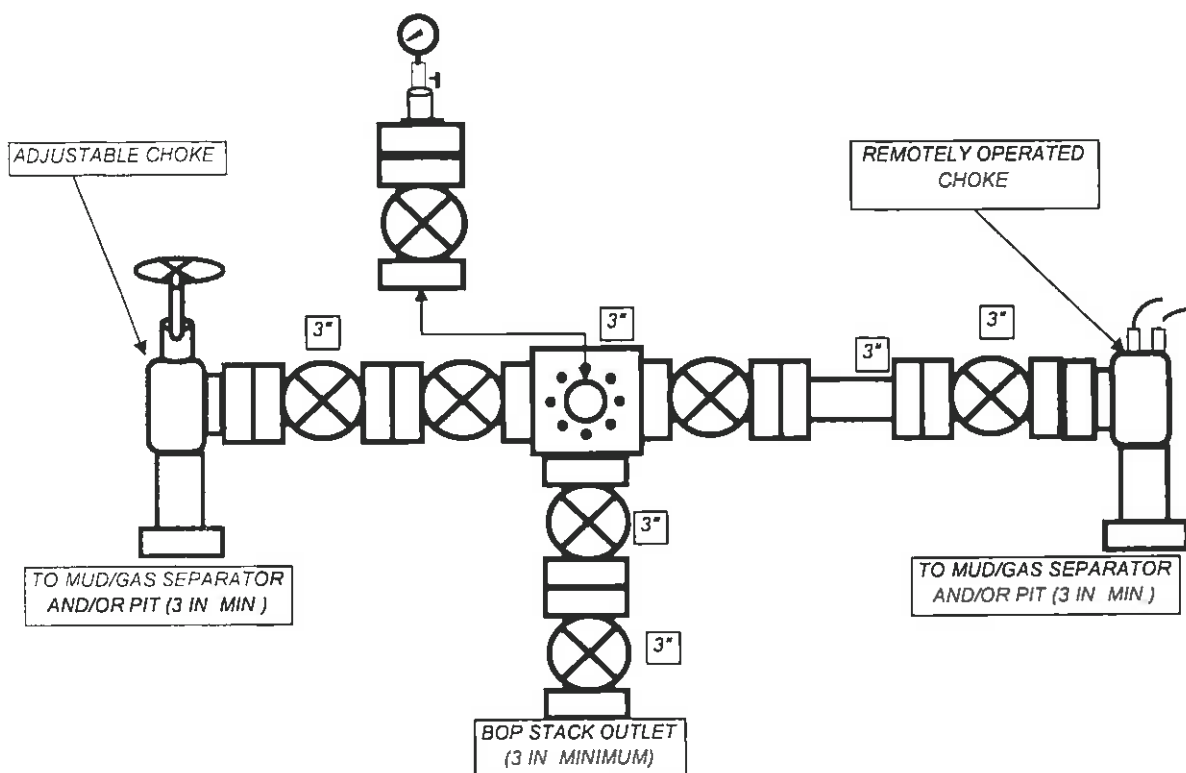
## BILL BARRETT CORPORATION

### TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



# BILL BARRETT CORPORATION

## TYPICAL 5,000 p.s.i. CHOKE MANIFOLD







**Bill Barrett Corporation**

March 28, 2012

Ms. Diana Mason – Petroleum Technician  
State of Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11  
**Lake Canyon Area #5-25D-47 LC Fee Well**  
Surface: 1766' FNL & 518' FWL, SWNW, 25-T4S-R7W, USM  
Bottom Hole: 1980' FNL & 810' FWL, SWNW, 25-T4S-R7W, USM  
Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rules R649-2, R649-3, R649-10 and R649-11, pertaining to the Location and Siting of Wells.

- The proposed location is within our Lake Canyon Area.
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area.
- The well will be drilled under an Exploration and Development Agreement between the Ute Indian Tribe and Ute Distribution Corporation. Ute Energy, LLC owns a right to participate in this well.
- BBC certifies that it is the working interest owner of all lands within 460 feet of the proposed well location, and together with Ute Energy, LLC, we own 100% of the working interest in these lands.

Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. Should you have any questions or need further information, please contact me at 303-312-8544.

Sincerely,

David Watts  
Landman

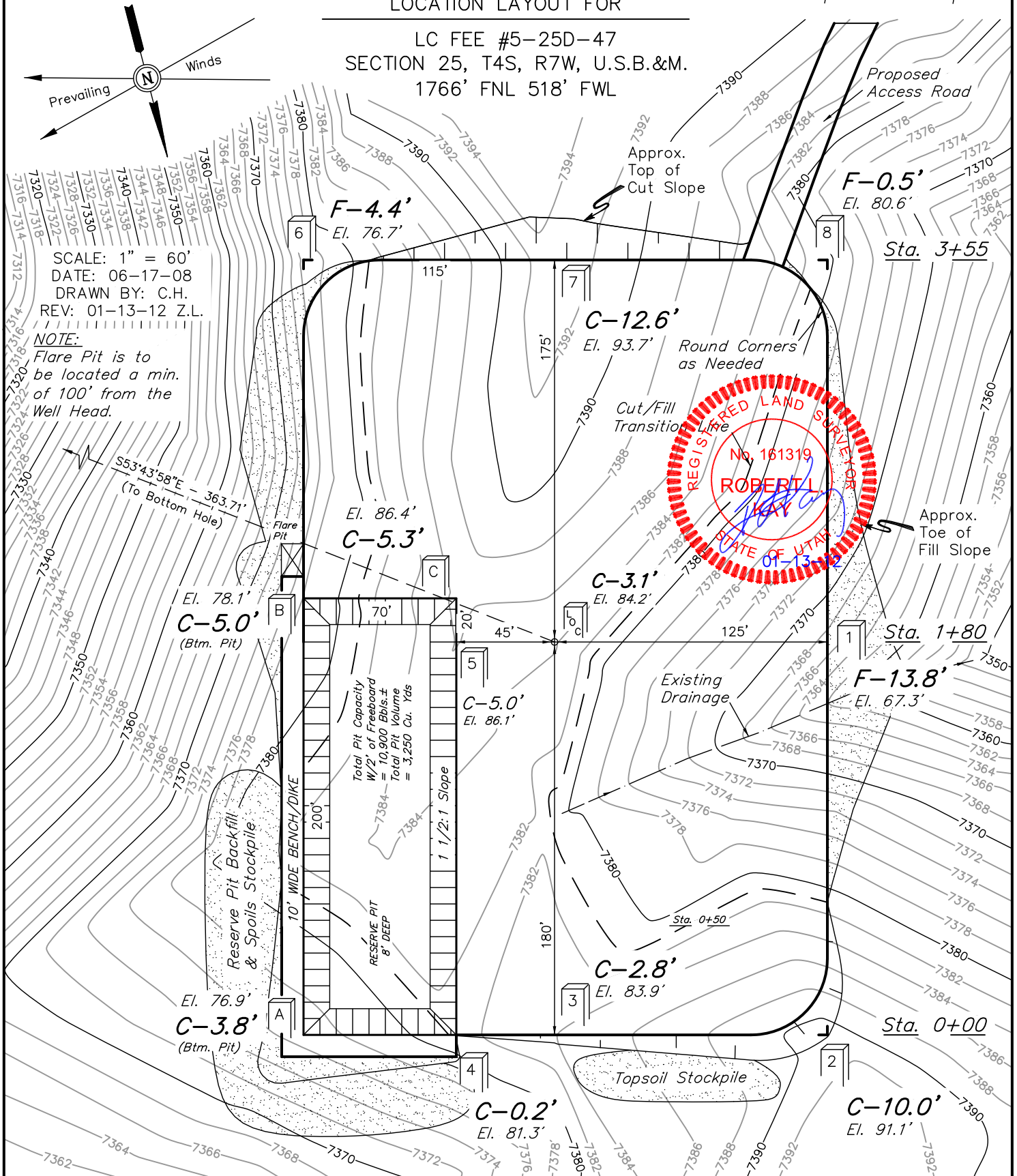
1099 18<sup>TH</sup> STREET  
SUITE 2300  
DENVER, CO 80202  
P 303.293.9100  
F 303.291.0420

## BILL BARRETT CORPORATION

## LOCATION LAYOUT FOR

LC FEE #5-25D-47  
SECTION 25, T4S, R7W, U.S.B.&M.  
1766' FNL 518' FWL

FIGURE #1



## NOTES:

Elev. Ungraded Ground At Loc. Stake = **7384.2'**  
FINISHED GRADE ELEV. AT LOC. STAKE = **7381.1'**

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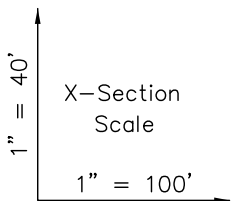


**BILL BARRETT CORPORATION****TYPICAL CROSS SECTIONS FOR**

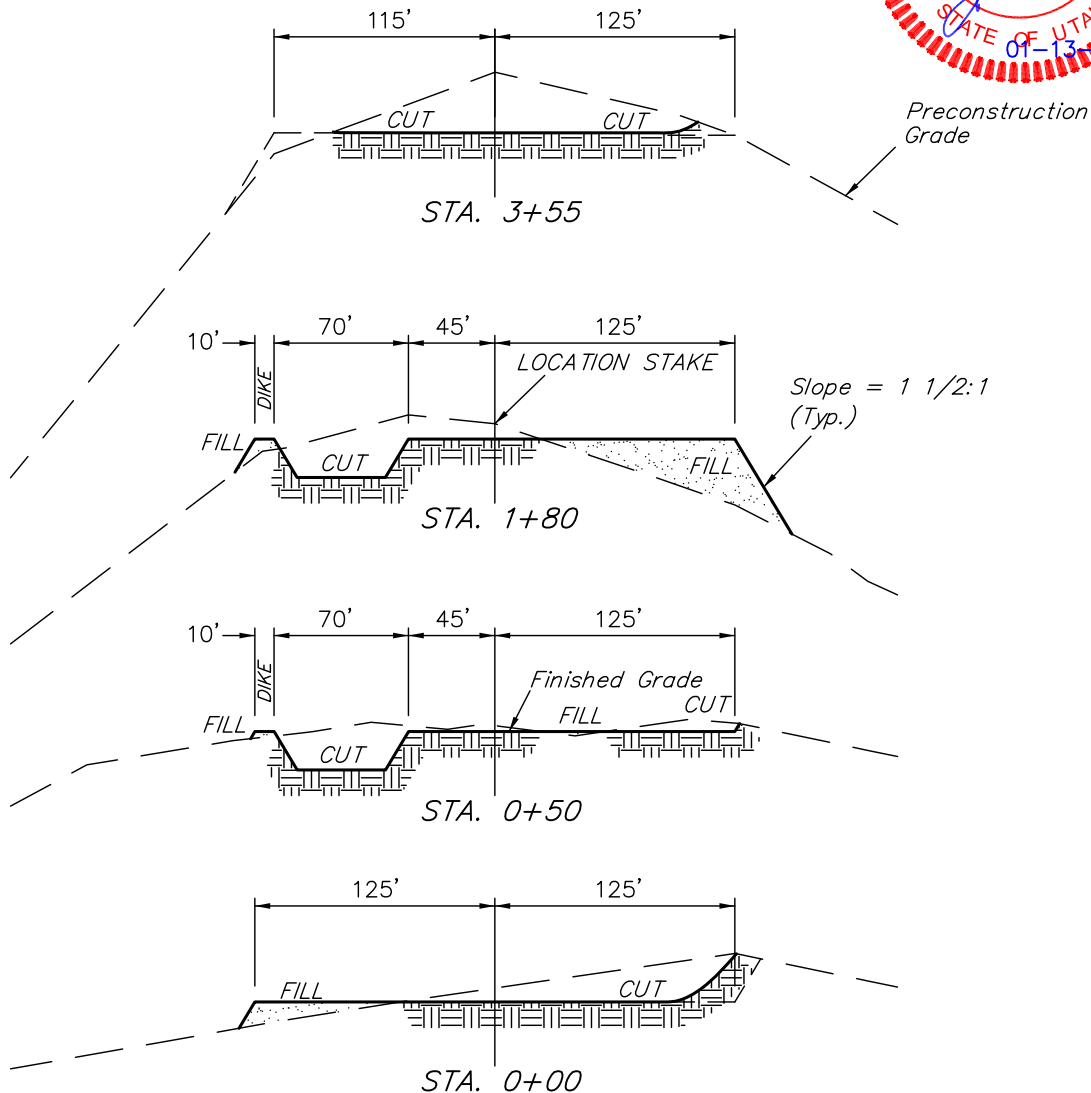
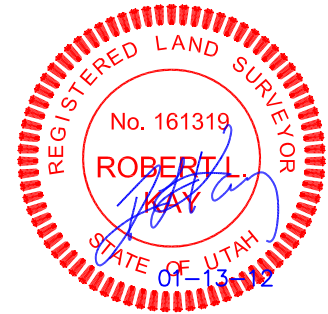
LC FEE #5-25D-47

SECTION 25, T4S, R7W, U.S.B.&amp;M.

1766' FNL 518' FWL

**FIGURE #2**

DATE: 06-17-08  
DRAWN BY: C.H.  
REV: 01-13-12 Z.L.

**NOTE:**

Topsoil should not be  
Stripped Below Finished  
Grade on Substructure Area

**\* NOTE:**

FILL QUANTITY INCLUDES  
5% FOR COMPACTION

**APPROXIMATE YARDAGES**

<b>CUT</b>	
(12") Topsoil Stripping	= 3,920 Cu. Yds.
Remaining Location	= 9,680 Cu. Yds.
<b>TOTAL CUT</b>	= 13,600 CU.YDS.
<b>FILL</b>	= 8,050 CU.YDS.

EXCESS MATERIAL	= 5,550 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 5,550 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

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**RECEIVED: March 28, 2012**

## BILL BARRETT CORPORATION

## TYPICAL RIG LAYOUT FOR

LC FEE #5-25D-47  
SECTION 25, T4S, R7W, U.S.B.&M.  
1766' FNL 518' FWL

FIGURE #3

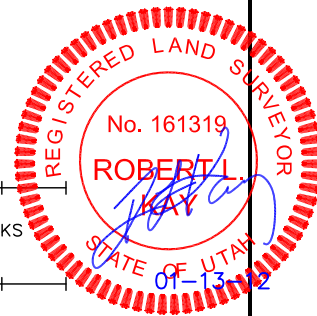
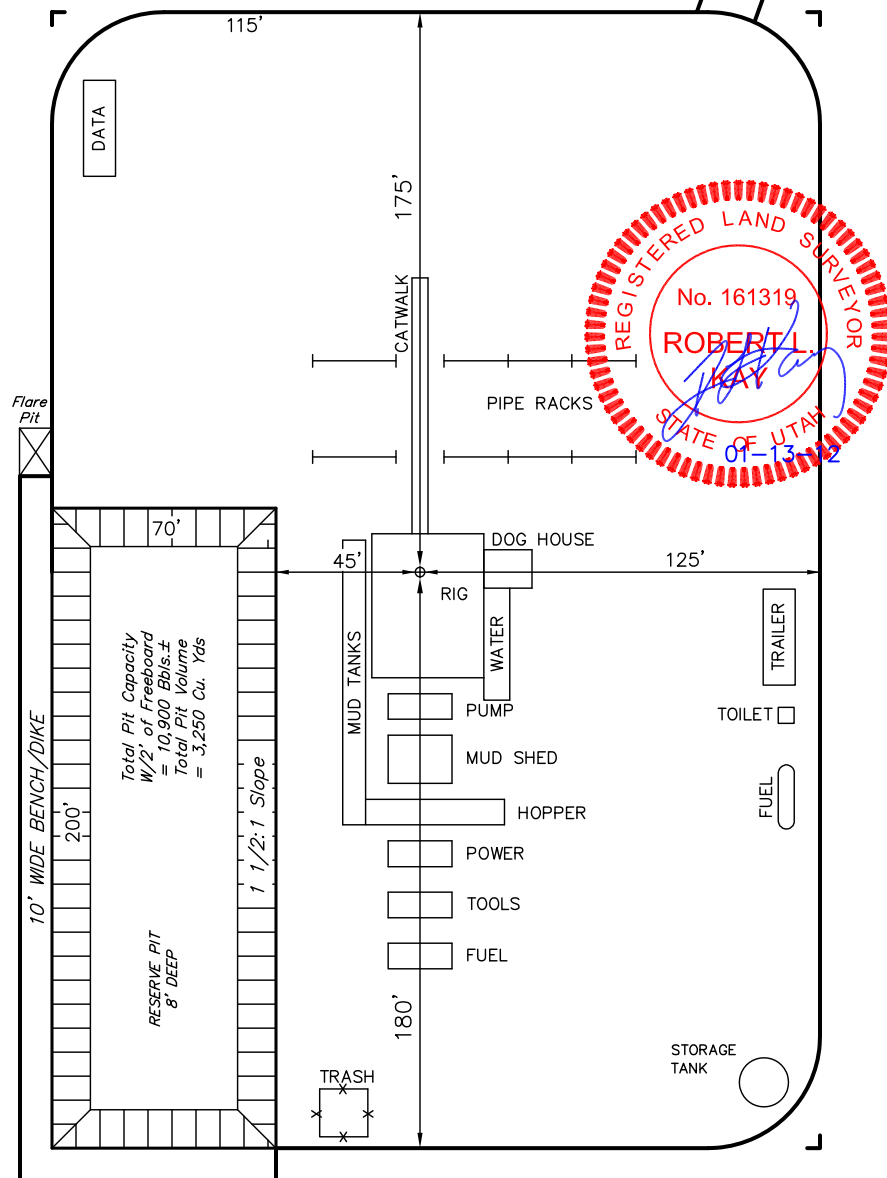


Proposed Access Road

SCALE: 1" = 60'  
DATE: 01-13-12  
DRAWN BY: Z.L.

NOTE:

Flare Pit is to  
be located a min.  
of 100' from the  
Well Head.





# BILL BARRETT CORPORATION

## INTERIM RECLAMATION LAYOUT FOR

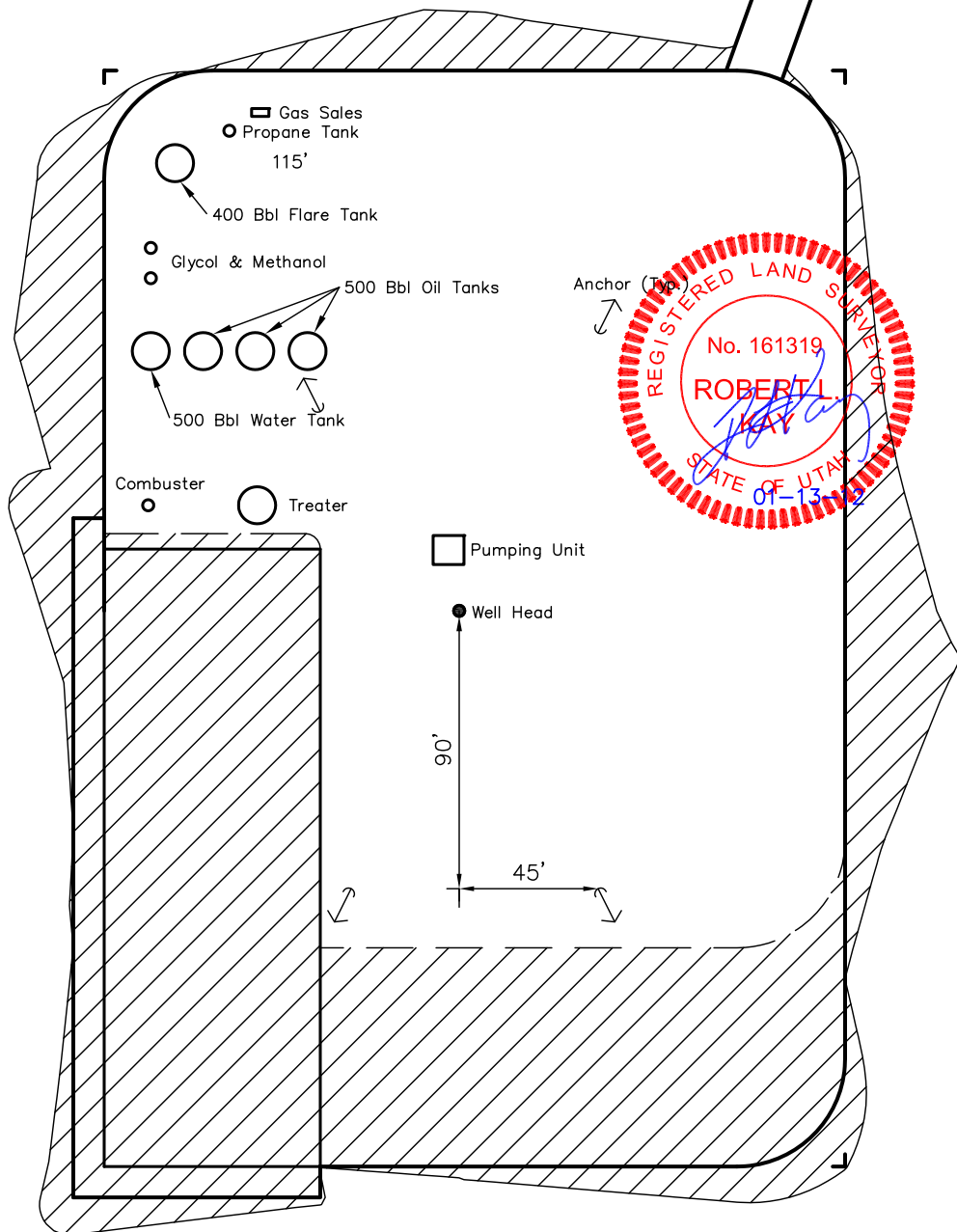
LC FEE #5-25D-47  
SECTION 25, T4S, R7W, U.S.B.&M.  
1766' FNL 518' FWL

FIGURE #4



Proposed Access Road

SCALE: 1" = 60'  
DATE: 01-13-12  
DRAWN BY: Z.L.

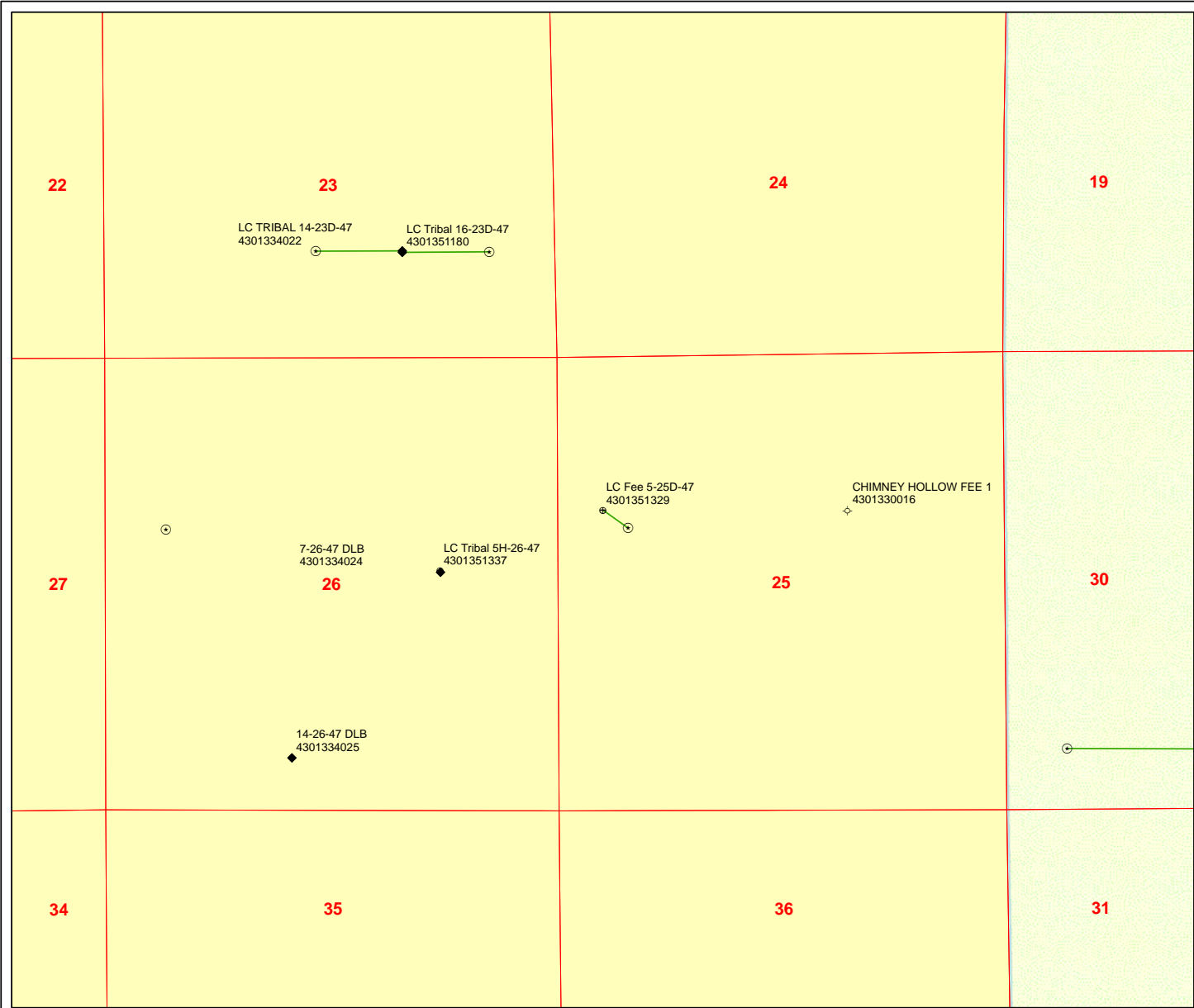


RECLAIMED AREA

APPROXIMATE ACREAGES  
UN-RECLAIMED =  $\pm 1.332$  ACRES

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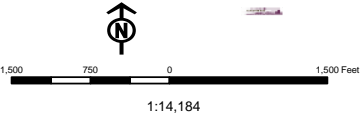
RECEIVED: March 28, 2012



**API Number: 4301351329**  
**Well Name: LC Fee 5-25D-47**  
**Township T0.4 . Range R0.7 . Section 25**  
**Meridian: UBM**  
Operator: BILL BARRETT CORP

Map Prepared:  
Map Produced by Diana Mason

- |               |                                    |
|---------------|------------------------------------|
| <b>Units</b>  | <b>Wells Query</b>                 |
| <b>STATUS</b> | <b>Status</b>                      |
| ACTIVE        | APD - Approved Permit              |
| EXPLORATORY   | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE   | GW - Gas Injection                 |
| NF PP OIL     | GS - Gas Storage                   |
| NF SECONDARY  | LA - Location Abandoned            |
| PI OIL        | LOC - New Location                 |
| PP GAS        | OPS - Operation Suspended          |
| PP GEOTHERM   | PA - Plugged Abandoned             |
| PP OIL        | PGW - Producing Gas Well           |
| SECONDARY     | POW - Producing Oil Well           |
| TERMINATED    | RET - Returned APD                 |
| <b>Fields</b> | <b>Status</b>                      |
| Unknown       | SGW - Shut-in Gas Well             |
| ABANDONED     | SOW - Shut-in Oil Well             |
| ACTIVE        | TA - Temp. Abandoned               |
| COMBINED      | TW - Test Well                     |
| INACTIVE      | WDW - Water Disposal               |
| STORAGE       | WW - Water Injection Well          |
| TERMINATED    | WSW - Water Supply Well            |







Bill Barrett Corporation

**SITE DETAILS: LC Fee 5-25D-47**  
 Lake Canyon

 Site Latitude: 40° 6' 23.108 N  
 Site Longitude: 110° 37' 51.128 W

**COMPANY DETAILS: BILL BARRETT CORP**

 Calculation Method: Minimum Curvature  
 Error System: ISCWSA  
 Scan Method: Closest Approach 3D  
 Error Surface: Elliptical Conic  
 Warning Method: Error Ratio

 Positional Uncertainty: 0.0  
 Convergence: 0.56  
 Local North: True

**WELL DETAILS: LC Fee 5-25D-47**

 Ground Level: 7384.0  
 Easting: 2243100.64  
 Latitude: 40° 6' 23.108 N  
 Longitude: 110° 37' 51.128 W  
 Slot

**WELLBORE TARGET DETAILS (LAT/LONG)**

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
LC Fee 5-25D-47 3PT MKR	746.0	-214.2	293.7	40° 6' 20.992 N	110° 37' 47.348 W	Rectangle (Sides: L200.0 W200.0)
LC Fee 5-25D-47 PBHL	7161.0	-214.2	293.7	40° 6' 20.992 N	110° 37' 47.348 W	Rectangle (Sides: L200.0 W200.0)

**SECTION DETAILS**

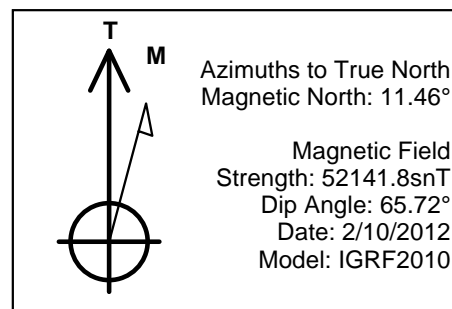
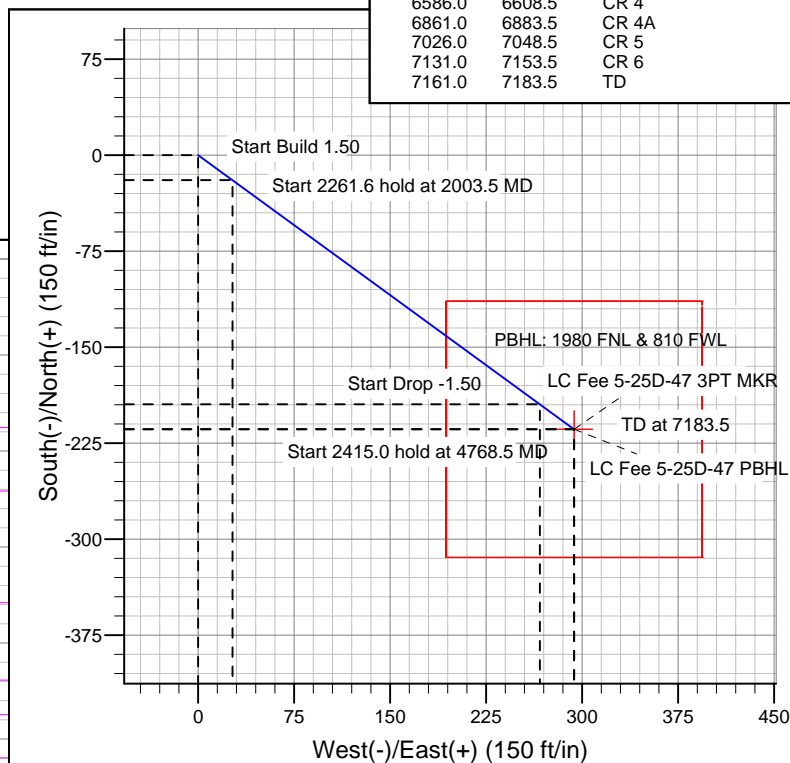
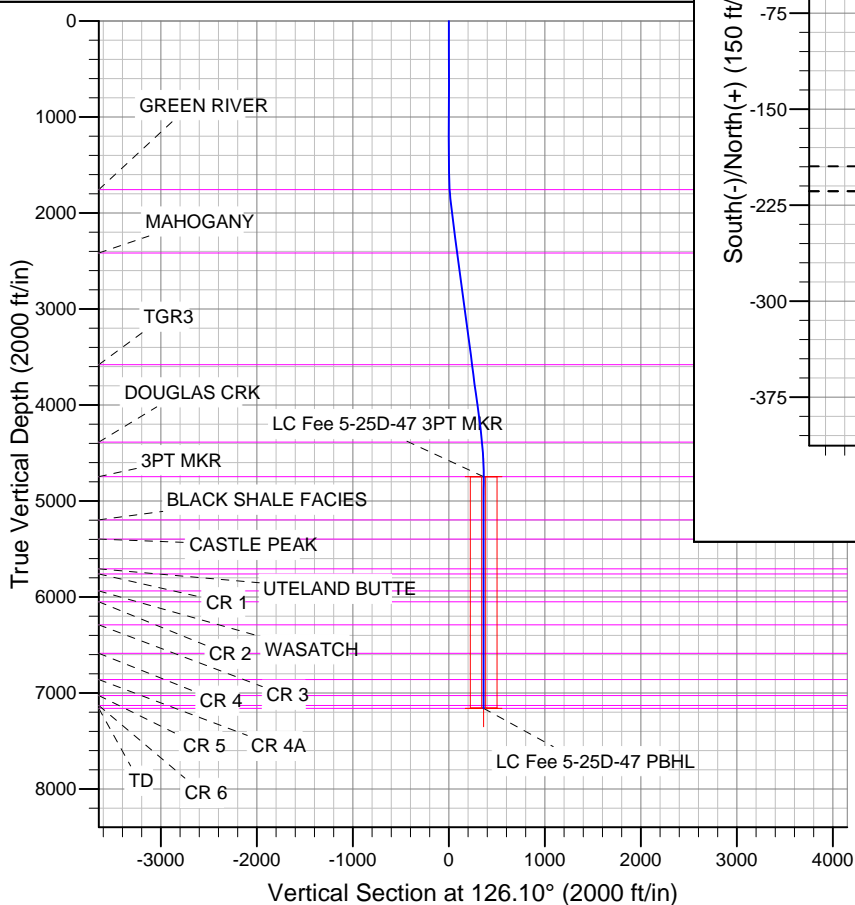
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	2003.5	7.55	126.10	2002.0	-19.5	26.8	1.50	126.10	33.1	
4	4265.1	7.55	126.10	4244.0	-194.7	266.9	0.00	0.00	330.4	
5	4768.5	0.00	0.00	4746.0	-214.2	293.7	1.50	180.00	363.5	LC Fee 5-25D-47 3PT MKR
6	7183.5	0.00	0.00	7161.0	-214.2	293.7	0.00	0.00	363.5	LC Fee 5-25D-47 PBHL

**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
1756.0	1756.2	GREEN RIVER
2416.0	2421.1	MAHOGANY
3581.0	3596.3	TGR3
4386.0	4408.0	DOUGLAS CRK
4746.0	4768.5	3PT MKR
5196.0	5218.5	BLACK SHALE FACIES
5396.0	5418.5	CASTLE PEAK
5706.0	5728.5	UTELAND BUTTE
5761.0	5783.5	CR 1
5936.0	5958.5	WASATCH
6051.0	6073.5	CR 2
6291.0	6313.5	CR 3
6586.0	6608.5	CR 4
6861.0	6883.5	CR 4A
7026.0	7048.5	CR 5
7131.0	7153.5	CR 6
7161.0	7183.5	TD

**CASING DETAILS**

No casing data is available



# **BILL BARRETT CORP**

**DUCHESNE COUNTY, UT (NAD 27)**

**LC Fee 5-25D-47**

**LC Fee 5-25D-47**

**LC Fee 5-25D-47**

**Plan: Design #1**

## **Standard Planning Report**

**10 February, 2012**



## Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well LC Fee 5-25D-47
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 7400.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 7400.0ft (Original Well Elev)
<b>Site:</b>	LC Fee 5-25D-47	<b>North Reference:</b>	True
<b>Well:</b>	LC Fee 5-25D-47	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	LC Fee 5-25D-47		
<b>Design:</b>	Design #1		

<b>Project</b>	DUCHESNE COUNTY, UT (NAD 27)		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Ground Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Utah Central 4302		

Site		LC Fee 5-25D-47			
Site Position:		Northing:	646,989.38 ft	Latitude:	40° 6' 23.108 N
From:	Lat/Long	Easting:	2,243,100.64 ft	Longitude:	110° 37' 51.128 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.56 °

Well	LC Fee 5-25D-47					
Well Position	+N/-S	0.0 ft	Northing:	646,989.38 ft	Latitude:	40° 6' 23.108 N
	+E/-W	0.0 ft	Easting:	2,243,100.64 ft	Longitude:	110° 37' 51.128 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	7,384.0 ft

<b>Wellbore</b>	LC Fee 5-25D-47				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2/10/2012	11.46	65.72	52,142

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	126.10

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,003.5	7.55	126.10	2,002.0	-19.5	26.8	1.50	1.50	0.00	126.10	
4,265.1	7.55	126.10	4,244.0	-194.7	266.9	0.00	0.00	0.00	0.00	
4,768.5	0.00	0.00	4,746.0	-214.2	293.7	1.50	-1.50	0.00	180.00	LC Fee 5-25D-47 3P1
7,183.5	0.00	0.00	7,161.0	-214.2	293.7	0.00	0.00	0.00	0.00	LC Fee 5-25D-47 PB1

## Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well LC Fee 5-25D-47
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 7400.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 7400.0ft (Original Well Elev)
<b>Site:</b>	LC Fee 5-25D-47	<b>North Reference:</b>	True
<b>Well:</b>	LC Fee 5-25D-47	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	LC Fee 5-25D-47		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	1.50	126.10	1,600.0	-0.8	1.1	1.3	1.50	1.50	0.00
1,700.0	3.00	126.10	1,699.9	-3.1	4.2	5.2	1.50	1.50	0.00
1,756.2	3.84	126.10	1,756.0	-5.1	6.9	8.6	1.50	1.50	0.00
<b>GREEN RIVER</b>									
1,800.0	4.50	126.10	1,799.7	-6.9	9.5	11.8	1.50	1.50	0.00
1,900.0	6.00	126.10	1,899.3	-12.3	16.9	20.9	1.50	1.50	0.00
2,000.0	7.50	126.10	1,998.6	-19.3	26.4	32.7	1.50	1.50	0.00
2,003.5	7.55	126.10	2,002.0	-19.5	26.8	33.1	1.50	1.50	0.00
2,100.0	7.55	126.10	2,097.7	-27.0	37.0	45.8	0.00	0.00	0.00
2,200.0	7.55	126.10	2,196.8	-34.7	47.6	59.0	0.00	0.00	0.00
2,300.0	7.55	126.10	2,296.0	-42.5	58.3	72.1	0.00	0.00	0.00
2,400.0	7.55	126.10	2,395.1	-50.2	68.9	85.2	0.00	0.00	0.00
2,421.1	7.55	126.10	2,416.0	-51.9	71.1	88.0	0.00	0.00	0.00
<b>MAHOGANY</b>									
2,500.0	7.55	126.10	2,494.2	-58.0	79.5	98.4	0.00	0.00	0.00
2,600.0	7.55	126.10	2,593.4	-65.7	90.1	111.5	0.00	0.00	0.00
2,700.0	7.55	126.10	2,692.5	-73.5	100.7	124.7	0.00	0.00	0.00
2,800.0	7.55	126.10	2,791.6	-81.2	111.4	137.8	0.00	0.00	0.00
2,900.0	7.55	126.10	2,890.8	-88.9	122.0	151.0	0.00	0.00	0.00
3,000.0	7.55	126.10	2,989.9	-96.7	132.6	164.1	0.00	0.00	0.00
3,100.0	7.55	126.10	3,089.0	-104.4	143.2	177.2	0.00	0.00	0.00
3,200.0	7.55	126.10	3,188.2	-112.2	153.8	190.4	0.00	0.00	0.00
3,300.0	7.55	126.10	3,287.3	-119.9	164.4	203.5	0.00	0.00	0.00
3,400.0	7.55	126.10	3,386.4	-127.7	175.1	216.7	0.00	0.00	0.00
3,500.0	7.55	126.10	3,485.6	-135.4	185.7	229.8	0.00	0.00	0.00
3,596.3	7.55	126.10	3,581.0	-142.9	195.9	242.5	0.00	0.00	0.00
<b>TGR3</b>									
3,600.0	7.55	126.10	3,584.7	-143.2	196.3	243.0	0.00	0.00	0.00
3,700.0	7.55	126.10	3,683.8	-150.9	206.9	256.1	0.00	0.00	0.00
3,800.0	7.55	126.10	3,783.0	-158.6	217.5	269.2	0.00	0.00	0.00
3,900.0	7.55	126.10	3,882.1	-166.4	228.2	282.4	0.00	0.00	0.00
4,000.0	7.55	126.10	3,981.2	-174.1	238.8	295.5	0.00	0.00	0.00
4,100.0	7.55	126.10	4,080.4	-181.9	249.4	308.7	0.00	0.00	0.00
4,200.0	7.55	126.10	4,179.5	-189.6	260.0	321.8	0.00	0.00	0.00
4,265.1	7.55	126.10	4,244.0	-194.7	266.9	330.4	0.00	0.00	0.00
4,300.0	7.03	126.10	4,278.6	-197.3	270.5	334.8	1.50	-1.50	0.00
4,400.0	5.53	126.10	4,378.0	-203.7	279.3	345.7	1.50	-1.50	0.00



## Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well LC Fee 5-25D-47
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 7400.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 7400.0ft (Original Well Elev)
<b>Site:</b>	LC Fee 5-25D-47	<b>North Reference:</b>	True
<b>Well:</b>	LC Fee 5-25D-47	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	LC Fee 5-25D-47		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,408.0	5.41	126.10	4,386.0	-204.2	280.0	346.5	1.50	-1.50	0.00
<b>DOUGLAS CRK</b>									
4,500.0	4.03	126.10	4,477.7	-208.6	286.1	354.1	1.50	-1.50	0.00
4,600.0	2.53	126.10	4,577.5	-212.0	290.7	359.8	1.50	-1.50	0.00
4,700.0	1.03	126.10	4,677.5	-213.8	293.2	362.9	1.50	-1.50	0.00
4,768.5	0.00	0.00	4,746.0	-214.2	293.7	363.5	1.50	-1.50	0.00
<b>3PT MKR</b>									
4,800.0	0.00	0.00	4,777.5	-214.2	293.7	363.5	0.00	0.00	0.00
4,900.0	0.00	0.00	4,877.5	-214.2	293.7	363.5	0.00	0.00	0.00
5,000.0	0.00	0.00	4,977.5	-214.2	293.7	363.5	0.00	0.00	0.00
5,100.0	0.00	0.00	5,077.5	-214.2	293.7	363.5	0.00	0.00	0.00
5,200.0	0.00	0.00	5,177.5	-214.2	293.7	363.5	0.00	0.00	0.00
5,218.5	0.00	0.00	5,196.0	-214.2	293.7	363.5	0.00	0.00	0.00
<b>BLACK SHALE FACIES</b>									
5,300.0	0.00	0.00	5,277.5	-214.2	293.7	363.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,377.5	-214.2	293.7	363.5	0.00	0.00	0.00
5,418.5	0.00	0.00	5,396.0	-214.2	293.7	363.5	0.00	0.00	0.00
<b>CASTLE PEAK</b>									
5,500.0	0.00	0.00	5,477.5	-214.2	293.7	363.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,577.5	-214.2	293.7	363.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,677.5	-214.2	293.7	363.5	0.00	0.00	0.00
5,728.5	0.00	0.00	5,706.0	-214.2	293.7	363.5	0.00	0.00	0.00
<b>UTELAND BUTTE</b>									
5,783.5	0.00	0.00	5,761.0	-214.2	293.7	363.5	0.00	0.00	0.00
<b>CR 1</b>									
5,800.0	0.00	0.00	5,777.5	-214.2	293.7	363.5	0.00	0.00	0.00
5,900.0	0.00	0.00	5,877.5	-214.2	293.7	363.5	0.00	0.00	0.00
5,958.5	0.00	0.00	5,936.0	-214.2	293.7	363.5	0.00	0.00	0.00
<b>WASATCH</b>									
6,000.0	0.00	0.00	5,977.5	-214.2	293.7	363.5	0.00	0.00	0.00
6,073.5	0.00	0.00	6,051.0	-214.2	293.7	363.5	0.00	0.00	0.00
<b>CR 2</b>									
6,100.0	0.00	0.00	6,077.5	-214.2	293.7	363.5	0.00	0.00	0.00
6,200.0	0.00	0.00	6,177.5	-214.2	293.7	363.5	0.00	0.00	0.00
6,300.0	0.00	0.00	6,277.5	-214.2	293.7	363.5	0.00	0.00	0.00
6,313.5	0.00	0.00	6,291.0	-214.2	293.7	363.5	0.00	0.00	0.00
<b>CR 3</b>									
6,400.0	0.00	0.00	6,377.5	-214.2	293.7	363.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,477.5	-214.2	293.7	363.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,577.5	-214.2	293.7	363.5	0.00	0.00	0.00
6,608.5	0.00	0.00	6,586.0	-214.2	293.7	363.5	0.00	0.00	0.00
<b>CR 4</b>									
6,700.0	0.00	0.00	6,677.5	-214.2	293.7	363.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,777.5	-214.2	293.7	363.5	0.00	0.00	0.00
6,883.5	0.00	0.00	6,861.0	-214.2	293.7	363.5	0.00	0.00	0.00
<b>CR 4A</b>									
6,900.0	0.00	0.00	6,877.5	-214.2	293.7	363.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,977.5	-214.2	293.7	363.5	0.00	0.00	0.00
7,048.5	0.00	0.00	7,026.0	-214.2	293.7	363.5	0.00	0.00	0.00
<b>CR 5</b>									
7,100.0	0.00	0.00	7,077.5	-214.2	293.7	363.5	0.00	0.00	0.00
7,153.5	0.00	0.00	7,131.0	-214.2	293.7	363.5	0.00	0.00	0.00
<b>CR 6</b>									

**Bill Barrett Corp**

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well LC Fee 5-25D-47
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 7400.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 7400.0ft (Original Well Elev)
<b>Site:</b>	LC Fee 5-25D-47	<b>North Reference:</b>	True
<b>Well:</b>	LC Fee 5-25D-47	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	LC Fee 5-25D-47		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,183.5	0.00	0.00	7,161.0	-214.2	293.7	363.5	0.00	0.00	0.00
TD									

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,756.2	1,756.0	GREEN RIVER		0.00		
2,421.1	2,416.0	MAHOGANY		0.00		
3,596.3	3,581.0	TGR3		0.00		
4,408.0	4,386.0	DOUGLAS CRK		0.00		
4,768.5	4,746.0	3PT MKR		0.00		
5,218.5	5,196.0	BLACK SHALE FACIES		0.00		
5,418.5	5,396.0	CASTLE PEAK		0.00		
5,728.5	5,706.0	UTELAND BUTTE		0.00		
5,783.5	5,761.0	CR 1		0.00		
5,958.5	5,936.0	WASATCH		0.00		
6,073.5	6,051.0	CR 2		0.00		
6,313.5	6,291.0	CR 3		0.00		
6,608.5	6,586.0	CR 4		0.00		
6,883.5	6,861.0	CR 4A		0.00		
7,048.5	7,026.0	CR 5		0.00		
7,153.5	7,131.0	CR 6		0.00		
7,183.5	7,161.0	TD		0.00		

BOPE REVIEW BILL BARRETT CORP LC Fee 5-25D-47 43013513290000

Well Name	BILL BARRETT CORP LC Fee 5-25D-47 43013513290000			
String	COND	SURF	PROD	
Casing Size(")	16.000	9.625	5.500	
Setting Depth (TVD)	80	1500	7184	
Previous Shoe Setting Depth (TVD)	0	80	1500	
Max Mud Weight (ppg)	8.8	8.8	9.6	
BOPE Proposed (psi)	0	1000	5000	
Casing Internal Yield (psi)	1000	3520	7740	
Operators Max Anticipated Pressure (psi)	3574		9.6	

Calculations	COND String	16.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	37		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	27	NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	19	NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	19	NO	
Required Casing/BOPE Test Pressure=		80	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient	

Calculations	SURF String	9.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	686		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	506	YES	fresh water spud mud
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	356	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	374	NO	OK
Required Casing/BOPE Test Pressure=		1500	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		80	psi *Assumes 1psi/ft frac gradient	

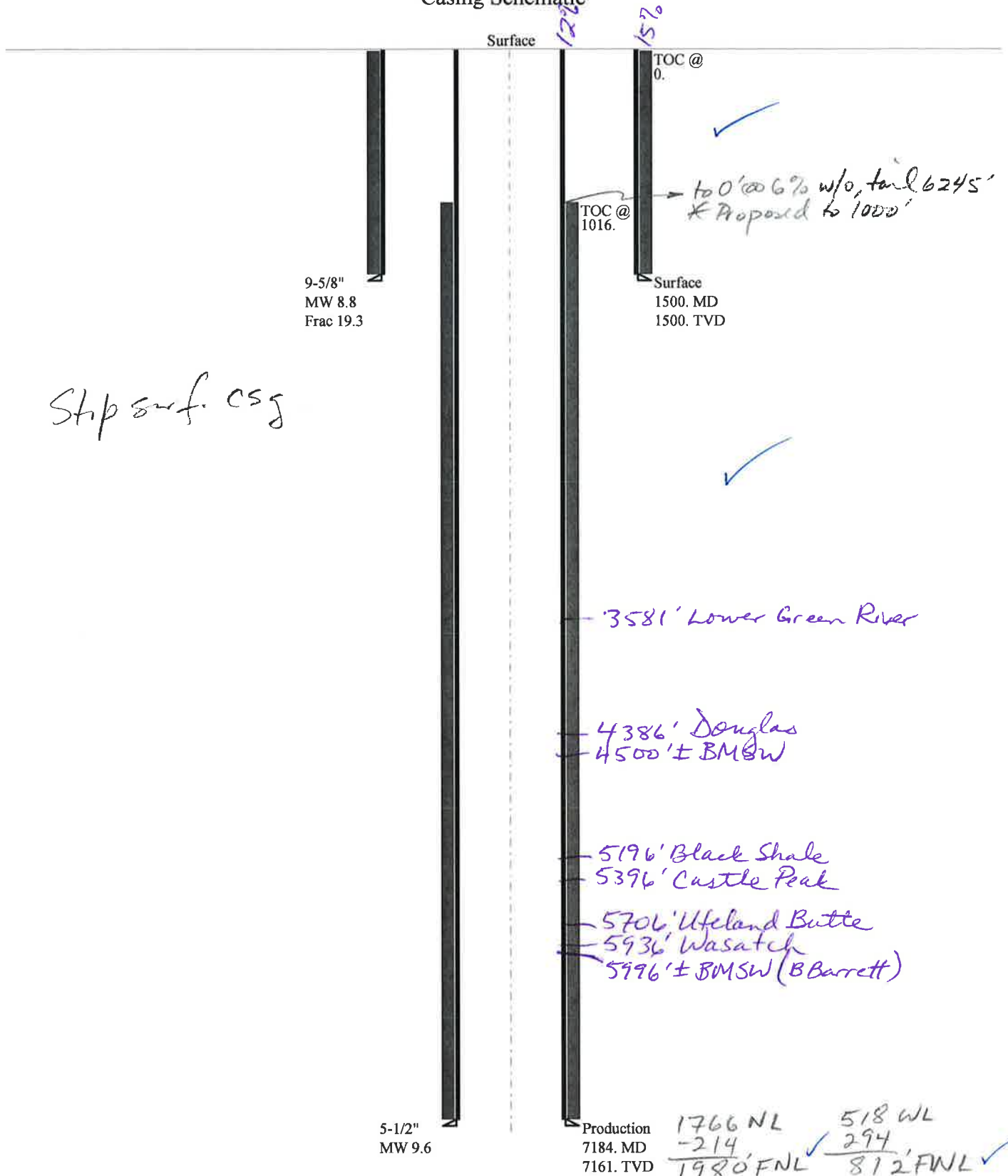
Calculations	PROD String	5.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	3586		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	2724	YES	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2006	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2336	NO	Reasonable
Required Casing/BOPE Test Pressure=		5000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		1500	psi *Assumes 1psi/ft frac gradient	

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	



# 43013513290000 LC Fee 5-25D-47

## Casing Schematic



Stop surf. csg

OK.

Well name:	<b>43013513290000 LC Fee 5-25D-47</b>	
Operator:	<b>BILL BARRETT CORP</b>	
String type:	Surface	Project ID: 43-013-51329
Location:	DUCHESNE COUNTY	

**Design parameters:****Collapse**

Mud weight: 8.800 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 95 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 1,320 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 1,500 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

Tension is based on air weight.  
Neutral point: 1,305 ft

**Non-directional string.****Re subsequent strings:**

Next setting depth: 7,161 ft  
Next mud weight: 9.600 ppg  
Next setting BHP: 3,571 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 1,500 ft  
Injection pressure: 1,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	1500	9.625	36.00	J-55	ST&C	1500	1500	8.796	13038

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	686	2020	2.946	1500	3520	2.35	54	394	7.30 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: June 20, 2012  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 1500 ft, a mud weight of 8.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>43013513290000 LC Fee 5-25D-47</b>	
Operator:	<b>BILL BARRETT CORP</b>	
String type:	Production	Project ID: 43-013-51329
Location:	DUCHESNE COUNTY	

**Design parameters:****Collapse**

Mud weight: 9.600 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 174 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

Cement top: 1,016 ft

**Burst**

Max anticipated surface pressure: 1,996 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 3,571 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

**Directional Info - Build & Drop**

Kick-off point 1500 ft  
Departure at shoe: 363 ft  
Maximum dogleg: 1.5 °/100ft  
Inclination at shoe: 0 °

Tension is based on air weight.  
Neutral point: 6,141 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	7184	5.5	17.00	N-80	LT&C	7161	7184	4.767	40492

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	3571	6290	1.761	3571	7740	2.17	121.7	348	2.86 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: June 20, 2012  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 7161 ft, a mud weight of 9.6 ppg. The casing is considered to be evacuated for collapse purposes.  
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

*Engineering responsibility for use of this design will be that of the purchaser.*



# Application for Permit to Drill

## Statement of Basis

### Utah Division of Oil, Gas and Mining

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
5537	43013513290000	LOCKED	OW	I	No
<b>Operator</b>	BILL BARRETT CORP		<b>Surface Owner-APD</b>		
<b>Well Name</b>	LC Fee 5-25D-47		<b>Unit</b>		
<b>Field</b>	UNDESIGNATED		<b>Type of Work</b>	DRILL	
<b>Location</b>	SWNW 25 4S 7W U 1766 FNL (UTM) 531405E 4439620N		518 FWL	GPS Coord	

#### Geologic Statement of Basis

Bill Barrett proposes to set 80 feet of conductor and 1,500 feet of surface casing which will be cemented to surface. The surface hole will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 4,500 feet. A search of Division of Water Rights records indicates that there are no water wells within a 10,000 foot radius of the center of Section 25. Production casing cement should be brought up to or above the estimated base of the moderately saline ground water in order to isolate it from fresher waters uphole.

Brad Hill  
**APD Evaluator**

4/2/2012  
**Date / Time**

#### Surface Statement of Basis

The surface rights at the proposed location are owned by the Ute Tribe. The operator is responsible for obtaining all required surface permits and rights-of -way.

Brad Hill  
**Onsite Evaluator**

4/2/2012  
**Date / Time**

#### Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
	None

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 3/28/2012

API NO. ASSIGNED: 43013513290000

WELL NAME: LC Fee 5-25D-47

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8172

CONTACT: Venessa Langmacher

PROPOSED LOCATION: SWNW 25 040S 070W

Permit Tech Review: ☒

SURFACE: 1766 FNL 0518 FWL

Engineering Review: ☒

BOTTOM: 1980 FNL 0810 FWL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.10629

LONGITUDE: -110.63152

UTM SURF EASTINGS: 531405.00

NORTHINGS: 4439620.00

FIELD NAME: UNDESIGNATED

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

PROPOSED PRODUCING FORMATION(S): GREEN RIVER-WASATCH

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

## LOCATION AND SITING:

☒ PLAT☐ R649-2-3.☒ Bond: STATE - LPM4138148

Unit:

☐ Potash☐ R649-3-2. General☐ Oil Shale 190-5☐ Oil Shale 190-3☐ R649-3-3. Exception☐ Oil Shale 190-13☒ Drilling Unit☒ Water Permit: 43-180

Board Cause No: Cause 139-87

☐ RDCC Review:

Effective Date: 12/6/2011

☐ Fee Surface Agreement

Siting: 4 Prod LGRRV-WSTC Per Sectional Drilling Units

☐ Intent to Commingle☒ R649-3-11. Directional Drill

Commingle Approved

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason  
5 - Statement of Basis - bhll  
12 - Cement Volume (3) - hmacdonald  
15 - Directional - dmason  
25 - Surface Casing - hmacdonald

RECEIVED: July 23, 2012



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** LC Fee 5-25D-47  
**API Well Number:** 43013513290000  
**Lease Number:** Fee  
**Surface Owner:** INDIAN  
**Approval Date:** 7/23/2012

### Issued to:

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-87. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Cement volume for the 5 1/2" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 1000' MD as indicated in the submitted drilling plan.



**Additional Approvals:**

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website  
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
  - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

**Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

**Approved By:**

A handwritten signature in black ink, appearing to read 'J. Rogers', written over a light blue horizontal line.

For John Rogers  
Associate Director, Oil & Gas

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Uintah
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> LC FEE 5-25D-47
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43013513290000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1766 FNL 0518 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 25 Township: 04.0S Range: 07.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <div style="border: 1px solid black; padding: 2px; display: inline-block;">7/1/2014</div> <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input type="checkbox"/> ACIDIZE</div> <div style="width: 33%;"><input type="checkbox"/> ALTER CASING</div> <div style="width: 33%;"><input type="checkbox"/> CASING REPAIR</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE TUBING</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE WELL NAME</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE WELL STATUS</div> <div style="width: 33%;"><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</div> <div style="width: 33%;"><input type="checkbox"/> CONVERT WELL TYPE</div> <div style="width: 33%;"><input type="checkbox"/> DEEPEN</div> <div style="width: 33%;"><input type="checkbox"/> FRACTURE TREAT</div> <div style="width: 33%;"><input type="checkbox"/> NEW CONSTRUCTION</div> <div style="width: 33%;"><input type="checkbox"/> OPERATOR CHANGE</div> <div style="width: 33%;"><input type="checkbox"/> PLUG AND ABANDON</div> <div style="width: 33%;"><input type="checkbox"/> PLUG BACK</div> <div style="width: 33%;"><input type="checkbox"/> PRODUCTION START OR RESUME</div> <div style="width: 33%;"><input type="checkbox"/> RECLAMATION OF WELL SITE</div> <div style="width: 33%;"><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</div> <div style="width: 33%;"><input type="checkbox"/> REPERFORATE CURRENT FORMATION</div> <div style="width: 33%;"><input type="checkbox"/> SIDETRACK TO REPAIR WELL</div> <div style="width: 33%;"><input type="checkbox"/> TEMPORARY ABANDON</div> <div style="width: 33%;"><input type="checkbox"/> TUBING REPAIR</div> <div style="width: 33%;"><input type="checkbox"/> VENT OR FLARE</div> <div style="width: 33%;"><input type="checkbox"/> WATER DISPOSAL</div> <div style="width: 33%;"><input type="checkbox"/> WATER SHUTOFF</div> <div style="width: 33%;"><input type="checkbox"/> SI TA STATUS EXTENSION</div> <div style="width: 33%;"><input checked="" type="checkbox"/> APD EXTENSION</div> <div style="width: 33%;"><input type="checkbox"/> WILDCAT WELL DETERMINATION</div> <div style="width: 33%;"><input type="checkbox"/> OTHER</div> </div>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	OTHER: <div style="border: 1px solid black; width: 150px; height: 20px;"></div>	
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="text-align: center;"> <b>BBC hereby requests a one year extension for the subject APD</b> </div> <div style="text-align: right; margin-top: 20px;"> <b>Approved by the Utah Division of Oil, Gas and Mining</b>   <b>Date:</b> June 19, 2013  <b>By:</b> </div>		
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher		<b>PHONE NUMBER</b> 303 312-8172
<b>SIGNATURE</b> N/A		<b>TITLE</b> Senior Permit Analyst
		<b>DATE</b> 6/17/2013





**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013513290000**

API: 43013513290000

Well Name: LC FEE 5-25D-47

Location: 1766 FNL 0518 FWL QTR SWNW SEC 25 TWNP 040S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 7/23/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Venessa Langmacher

Date: 6/17/2013

Title: Senior Permit Analyst Representing: BILL BARRETT CORP

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: LC FEE 5-25D-47
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43013513290000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1766 FNL 0518 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 25 Township: 04.0S Range: 07.0W Meridian: U		9. FIELD and POOL or WILDCAT: UNDESIGNATED
		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <b>7/23/2015</b>	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> APD EXTENSION  OTHER: <input type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

BBC hereby request a one year extension for APD

**Approved by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
 June 17, 2014

Date: \_\_\_\_\_

By: 

NAME (PLEASE PRINT) Christina Hirtler	PHONE NUMBER 303 312-8597	TITLE Administrative Assistant
SIGNATURE N/A		DATE 6/16/2014



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013513290000**

API: 43013513290000

Well Name: LC FEE 5-25D-47

Location: 1766 FNL 0518 FWL QTR SWNW SEC 25 TWNP 040S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 7/23/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Christina Hirtler

Date: 6/16/2014

Title: Administrative Assistant Representing: BILL BARRETT CORP



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

August 6, 2015

Bill Barrett Corp.  
1099 18th Street, Suite 2300  
Denver, CO 80202

Re: APDs Rescinded for Bill Barrett Corp., Emery and Duchesne County

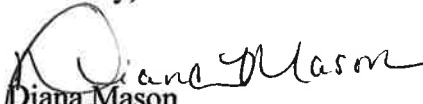
Ladies and Gentlemen:

Enclosed find the list of APDs that is being rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded effective August 6, 2015.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

  
Diana Mason  
Environmental Scientist

cc: Well File  
Brad Hill, Technical Service Manager  
Bureau of Land Management, Price





43-015-50001 Federal 9H-17-16-13  
43-013-51329 LC FEE 5-25D-47  
43-013-51378 13-4-35 BTR SWD  
43-013-51379 7-35-46 LC SWD  
43-013-51300 12-23-22 South Altamont